

STANDING SEAM ROOF ASSEMBLY HAVING INCREASED SIDELAP SHEAR CAPACITY

Abstract of the Disclosure

A standing seam roof assembly in which adjacently disposed roof panels are supported by underlying support structure in overlapping edge relationship and connected with standing seams, the roof assembly resistant to sideslipping when subjected to uplift forces and having roof panels with female sidelap portions having male insertion cavities, while adjacently disposed roof panels having male sidelap portion lockingly engaged the female cavities. The sidelap shear capacity of the roof panels is increased in one embodiment by backer plates disposed in pairs on opposing sides of the standing seams and fastened together to sandwich together the female and male sidelap portions so the standing seams have increased resistance to side slipping under wind uplift. In another embodiment, cinch plates are supported on the roof panels between the standing seams and connected to an underlying backer member that extends to and is connected to the underlying support structure.